### **Ross Engineering** Civil/Structural Engineering & Surveying

909 Islington Street Portsmouth, NH 03801 603-433-7560 alexross@comcast.net

May 25, 2022 Portsmouth Planning Department 1 Junkins Ave Portsmouth, NH 03801

## **11 Fletcher Street** <u>CONDITIONAL USE PERMIT</u>

RE: Lancen & Sophie LaChance 11 Fletcher St Portsmouth, NH 03801 Tax Map 233, Lot 76-1

This project involves construction of a house on an existing vacant lot. The house, attached garage, porch, and deck will all be outside the 100' wetland buffer. A conditional use permit is required because the proposed stormwater drain outlet will be in the wetland buffer. The department of public works recommends that the drain outlet be located in the lower lot corner as shown. The drain outlet will provide a direct route to the wetland area and avoid a flowpath towards Lot 73 which is in a low-lying area.

### Proposed site improvements include:

- 1. Pervious paver driveway to collect runoff from the driveway and the northern garage roof.
- 2. Infiltration trenches along the perimeter of the building collecting runoff from the roofs.
- 3. A stone area beneath the deck to collect runoff from the roofs, as well as stormwater from the pervious pavers and infiltration trenches. Water is stored in this area, before being slowly released to the outlet protection in the southwest through a 4" pipe. Wetland buffer plantings will be installed surrounding the outlet.
- 4. Sewer and water trenches are proposed to connect to existing lines on Sims Ave.

A drainage study has been prepared and after the improvements are installed the stormwater runoff rate will be lower than currently exists.

Sincerely,

Alex Ross, PE, LLS

### 909 Islington Street Portsmouth, NH 03801

603-433-7560 alexross@comcast.net

# **List of Abutters**

Dated 5-25-2022

To: City of Portsmouth 1 Junkins Ave Portsmouth, NH 03801

> Applicant & Land Owner's Name: Lancen & Sophie Lachance 281 Dennett St Portsmouth, NH 03801

> > Location of Land: 11 Fletcher St Portsmouth, NH 03801 Tax Map 233, Lot 76-1

Abutters: Judith B. Pope Revocable Trust of 2011 66 Benson St Portsmouth, NH 03801 Tax Map 233, Lot 73

Stephanie J. Long Revocable Trust of 2008 80 Sims Ave Portsmouth, NH 03801 Tax Map 233, Lot 74

Eric R. Hutchins Revocable Trust of 2015 74 Sims Ave Portsmouth, NH 03801 Tax Map 233, Lot 75

Mark G. Broderick & Emily Spencer 70 Sims Ave Portsmouth, NH 03801 Tax Map 233, Lot 76

Riverbrook at Portsmouth Condominium Multiple Owners Portsmouth, NH 03801 Tax Map 232-121

### **Civil Engineer & Surveyor**

Alex Ross Ross Engineering Certified Professional Engineer Licensed Land Surveyor 909 Islington Street Portsmouth, NH 03801

909 Islington Street Portsmouth, NH 03801 603-433-7560 alexross@comcast.net



1. Aerial of neighborhood, before lot clearing



2. Aerial of Site, before lot clearing

909 Islington Street Portsmouth, NH 03801

603-433-7560 alexross@comcast.net



# 3. Looking upslope North East



4. View towards south east corner

909 Islington Street Portsmouth, NH 03801

603-433-7560 alexross@comcast.net



5. Looking south west towards woodland wetland buffer.

### **Ross Engineering, LLC**

909 Islington Street Portsmouth, NH 03801 603-433-7560 alexross@comcast.net

May 24, 2022

Planning Department City of Portsmouth Portsmouth, NH 03801

RE: 11 Fletcher St Tax Map 233, Lot 76-1 Portsmouth, NH 03801

Owner: Lancen & Sophie LaChance 281 Dennett St Portsmouth, NH 03801

Please be advised that Alex Ross of Ross Engineering is authorized to be our agent for the above application process. Should you have any questions, please contact us.

Sincerely, Jophie JaChance

Lancen & Sophie LaChance 281 Dennett St Portsmouth, NH 03801







NOTES	
I) OWNER OF RECORD:	
TAX MAP 233, LOT 76-1	ANCE
70 SIMS AVENUE PORTSMOUTH, NH 03801	
RCRD 6364-2154 LOT 76-LAREA 12850 9	SE 0.29 AC
2) PARCEL IS IN SINGLE RESI MINIMUM LOT AREA	DENCE B DISTRICT: 15,000 SF
MIN. LOT AREA PER DWE MINIMUM FRONTAGE	LLING UNIT15,000 SF
MINIMUM DEPTH	
FRONT	
SIDE REAR	10 F1 
MAXIMUM BUILDING HEIGH SLOPED ROOF	+Τ: 35 FT
MAXIMUM BUILDING COVE MINIMUM OPEN SPACE	RAGE20% 40%
BUILDING COVERAGE	
EXISTING COVERAGE =	= 0 5F
PROPOSED COVERAGI HOUSE	E 1987 SF
<u>PORCH &amp; DECK</u> PROPOSED STRUCTI	327  SF IRE 2314 SE = 18.0%
EXISTING COVERAGE	= 0 SF
PROPOSED COVERAGE	E
HOUSE PORCH, DECK & STA	
ASPHALT TOTAL LOT COVERA	<u>0 SF</u>
PROPOSED OPEN SE	PACE 10,492 SF
PROPOSED OPEN St	PACE 01.0%
4) GRADE PLANE IS DEFINED PLANE OF THE AVERAGE	OROUND LEVELS
ADJOINING THE BUILDING ADJOINING THE BUILDING A	AT THE EXTERIOR WALLS, $2 + E \sqrt{E} + A = A = POINT 6$
AWAY FROM THE BUILDING	5 WHEN THE GROUND
THE GRADE PLANE WAS D	PETERMINED TO BE 57.75'.
5) BUILDING HEIGHT IS DEFIN	ED AS THE VERTICAL
MEASUREMENT BETWEEN T THE FIRST BEING DEFINED	WO REFERENCE POINTS. AS THE GRADE PLANE
ABOVE. THE SECOND BEIN	IG THE MIDWAY POINT
PITCHED ROOF.	THE RIDGE ON A
GRADE PLANE EL. = 57.75	5
EAVES EL. = 82.50' RIDGE EL. = 93.00'	
ROOF MIDWAY EL. = 82.50	0 + 93.00 / 2 = 87.75'
BUILDING HEIGHT = 87.75'	- 57.75' = 30.00' < 35'
	2 5/25/2022 FOR PB 1 1/17/2022 PRELIMINARY
	ISS. DATE DESCRIPTION OF ISSUE
	CHECKED A.ROSS
	CHECKED
5 FROM SECTION 10.521	ROSS ENGINEERING
ON APRIL 21, 2020.	Civil/Structural Engineering & Surveying
AREA PER DWELLING	909 Islington St. Portsmouth, NH 03801 (603) 433-7560
15,000 SF IS REQUIRED.	CLIENT
STREET FRONTAGE	281 DENNETT STREET
- <del></del> -	PURISMUUIH, NH 03801
	TITLE
	SITE PLAN
	11 FLETCHER ST
	PORTSMOUTH, NH 03801
	TAX MAP 233, LOT 76-1
	21-176   2 OF 8 2





# UTILITIES:

WATER: PORTSMOUTH DPW:	
SEWER: PORTSMOUTH DPW:	

# PROPOSED UTILITIES:

I. WATER:

DOMESTIC: A NEW I" LINE WILL BE INSTALLED TO THE BUILDING FROM THE EXISTING 6" DUCTILE IRON LINE ON SIMS AVE.

2. SEWER:

A NEW PVC SEWER LATERAL SHALL BE CONNECTED TO THE EXISTING SEWER MANHOLE (SMH #I) IN SIMS AVE. INVERT ELEVATION AT BUILDING SHALL BE 56.1'. SEE CROSS SECTION.

THE SEWER CONNECTION SHALL BE WITNESSED AND APPROVED BY THE PORTSMOUTH WATER DIVISION AND SOLID COUPLINGS WILL BE USED TO CUT IN THE SERVICE TO THE MAIN.

	<u>LEGEND</u>
-100-	EXISTING CONTOUR
-00-	PROPOSED CONTOUR
100×00	SPOT ELEVATION
S	SEWER MANHOLE
$\bigcirc$	MONUMENT FOUND
С	UTILITY POLE
	VERTICAL GRANITE CURB
<b>#</b>	CATCH BASIN
	LEDGE
0000	STONE WALL
	TEST PIT
INV. EL 52.97	CITY TRACE ELEVATION OF UTILITY

	2 5/25/2022	FOR PB
	1 1/17/2022	PRELIMINARY
	ISS. DATE	DESCRIPTION OF ISSUE
2" THICK, 2'x8' RIGID INSULATION	SCALE $1'' = 10'$	
2 LAYERS ON TOP, I LAYER ON SIDES.	CHECKED A.ROSS	
COVERED WITH 2" THICK 2'X2' SECTION	DRAWN D.D.D.	
	CHECKED	
	ROSS EN Civil/Structu & Su 909 Is Portsmou (603)	GINEERING tral Engineering tryeying Jington St. th, NH 03801 433-7560
	CLIENT LANCEN & SOF 281 DENNETT S PORTSMOUTH, I	PHIE LACHANCE STREET NH 03801
SERVICES.	TITLE	
FS WITH PORTSMOUTH		
TION TO BE	UTILIT	Y PLAN
DULATION CENTERED	11 FLET	CHER ST
	PORTSMOUT	'H NH 03801
		20  100  00001
<u>21N</u>	IAA MAP 23	55, LUI (6-1
	JDB NUMBER	DWG. ND. ISSUE
	21-1/6	4 UF 8 2



SCALE: HORIZONTAL: |" = 10' VERTICAL: |" = |'

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				client LANCEN & 281 DENNE <sup>-</sup> PORTSMOUT	SOPH It sti H, NH	IE LACHANC REET I 03801	CE
				TITLE <b>TAT A (77)</b>	<u>ر ا را</u>		- <b>-</b> -
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				11 FI PORTSMC	LETC UTH	HER ST I, NH 03	801
				TAX MAP	233	3, LOT 7	6-1
				JOB NUMBER 21-1	76	<sup>dwg. n⊡.</sup> 5 OF 8	ISSUE 2



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				6" SEWER (55.87' - 53 4" SEWER (56.78' - 5	LINE RUNS 3.71' = 2.17 LINE RUNS	215' LONG 1') 2.16' / 2 37' LONG	5 AT 1% 15' = 0.01 AT 2%	2				



# SEWER LINES

1) MINIMUM SIZE PIPE FOR HOUSE SERVICE SHALL BE FOUR INCHES. 2) PIPE AND JOINT MATERIALS:

A. PLASTIC SEWER PIPE

1. PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS

ASTM <u>STANDARI</u>	GENEF DS MATEF	RIC PIPE RIAL	S I AF	I ZE <u>PPR</u>	S <u>DVED</u>				
D3034	*PVC	(SOLID WALL)	ε	3″	THROUGH	15″	(SDR	35)	
F679	PVC	(SOLID WALL)	18	B″	THROUGH	27″	< T-1	& T-2>	
F789	PVC	(SOLID WALL)	4	4″	THROUGH	18″	< T-1	TD T-32	>
F794	PVC	(RIBBED WALL)	ε	B″	THROUGH	36″			
D2680	*ABS	(COMPOSITES WA	ALL) E	3″	THROUGH	15″			
*PVC: *ABS:	POLY VINYL ACRYLONITR:	CHLORIDE ILE-BUTADIENE-S	STYRENE						

2. - JOINTS SEALS FOR PVC PIPE SHALL BE OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D-3212 AND SHALL BE PUSH-ON, BELL AND SPIGDT TYPE.

-PLASTIC SEWER PIPE SHALL HAVE A PIPE STIFFNESS RATING DF AT LEAST 46 POUNDS PER SQUARE INCH AT 5% PIPE DIAMETER DEFLECTION, AS MEASURED IN ACCORDANCE WITH ASTM D2412 DURING MANUFACTURE. -PVC PIPE USED FOR FORCE MAINS SHALL CONFORM TO ASTM D2241

OR ATM D1784. -FORCE MAINS SHALL BE DESIGNED TO WITHSTAND HYDROSTATIC PRESSURES OF AT LEAST 2 1/2 TIMES THE DESIGN TOTAL DYNAMIC HEAD.

B. DUCTILE-IRON PIPE, FITTINGS AND JOINTS.

1. DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING STANDARDS:

- -AWWA C151 FOR DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL OR SAND LINED MOLDS, FOR WATER OR OTHER LIQUIDS. -AWWA C150 FOR THICKNESS DESIGN OF DUCTILE IRON PIPE AND
- WITH ASTM A 536 DUCTILE IRON CASTINGS.
- -JDINTS SHALL BE MECHANICAL TYPE, PUSH-DN TYPE,

DR BALL-AND-SOCKET TYPE. 3) DAMAGED PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE.

- 4) JOINTS SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATER-TIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE DIFFERING MATERIALS ARE TO BE CONNECTED, AS AT THE STREET SEWER WYE OR AT THE FOUNDATION WALL, APPROPRITATE MANUFACTURED ADAPTERS SHALL BE USED.
- 5) TEES AND WYES: WHERE A TEE OR WYE IS NOT AVAILABLE IN THE EXISTING STREET SEWER, AN APPROPRIATE CONNECTION SHALL BE MADE, FOLLOWING MANUFACTURERS' INSTRUCTIONS USING A BOLTED, CLAMPED OR EPOXY-CEMENTED SADDLE TAPPED INTO A SMOOTHLY DRILLED OR SAWN OPENING IN THE SEWER. THE PRACTICE OF BREAKING AN DPENING WITH A SLEDGE HAMMER, STUFFING CLOTH DR DTHER SUCH MATERIAL ARDUND THE JOINT, OR APPLYING MORTAR TO HOLD THE CONNECTION, AND ANY OTHER SIMILAR CRUDE PRACTICES OR INEPT OR HASTY IMPROVISATIONS WILL NOT BE PREMITTED. THE CONNECTION SHALL BE CONCRETE ENCASED AS SHOWN IN THE DETAIL UP TO AND INCLUDING 15" DIAMETER, AS SPECIFIED IN NOTE 10. BEDDING AND RE-FILL FOR DEPTH OF 12 INCHES ABOVE THE TOP OF THE PIPE SHALL BE CAREFULLY AND THOROUGHLY TAMPED BY HAND OR WITH APPROPRIATE MECHANICAL DEVICES.
- 6) HOUSE SEWER INSTALLATION: THE PIPE SHALL BE HANDLED, PLACED AND JOINTED IN ACCORDANCE WITH INSTALLATION GUIDES OF THE APPROPRIATE MANUFACTURER. IT SHALL BE CAREFULLY BEDDED ON A 4 INCH LAYER OF CRUSHED STONE AND/OR GRAVEL THE PIPE SHALL BE LAID AT A CONTINUOUS AND CONSTANT GRADE FROM THE STREET SEWER CONNECTION TO THE FOUNDATION AT A GRADE OF NOT LESS THAN 1/4 INCH PER FOOT. PIPE JOINTS MUST BE MADE UNDER DRY CONDITIONS. IF WATER IS PRESENT, ALL NECESSARY STEPS SHALL BE TAKEN TO DEWATER THE TRENCH.

7) -ALL NEW SEWERS, MANHOLES, AND FORCE MAINS SHALL BE TESTED FOR WATER TIGHTNESS BY THE USE OF EITHER WATER OR LOW-PRESSURE AIR TESTS. -LOW PRESSURE AIR TESTING SHALL BE IN CONFORMANCE WITH ASTM C828. -THE RATE OF INFILTRATION OR EXFILTRACTION SHALL BE NOT GREATER THAN 100 GALLONS PER DAY PER INCH OF PIPE DIAMETER PER MILE OF PIPE FOR SIZES TO 48", AND NOT GREATER THAN 200 GALLONS PER DAY PER INCH OF PIPE DIAMETER PER MILE FOR SIZES OVER 48". -FORCE MAINS SHALL BE TESTED IN ACCORDANCE WITH SECTION 4 OF AWWA C600 "INSTALLATION OF CAST IRON WATER MAINS". AT A PRESSURE FQUAL TO 150%

OF THE DESIGN OPERATING TOTAL DYNAMIC HEAD. -MANHOLES SHALL BE TESTED FOR LEAKAGE USING EITHER A WATER EXILTRATION TEST DR A VACUUM TEST.

-THE MANHOLE VACUUM TEST SHALL CONFORM TO THE FOLLOWING: \*NOT LESS THAN 2 MINUTES FOR MANHOLES LESS THAN 10 FT. IN DEPTH. \*NOT LESS THAN 2 1/2 MINUTES FOR MANHOLES 10-15 FT. DEEP. \*NOT LESS THAN 3 MINUTES FOR MANHOLES MORE THAN 15 FT. DEEP.

-LEAKAGE DBSERVED IN ANY DNE DF THE ABDVE ALTERNATE TESTS SHALL BE CAUSE FOR NON-ACCEPTANCE AND THE PIPE SHALL BE DUG-UP IF NECESSARY AND RE-LAID SO AS TO ASSURE WATER TIGHTNESS. -A WATERTIGHT HATCH IS REQUIRED TO PREVENT STORM SURGE INTRUSION.

- 8) ILLEGAL CONNECTIONS: NOTHING BUT SANITARY WASTE FLOW FROM HOUSE TOILETS, SINKS, LAUNDRY ETC. SHALL BE PREMITTED. ROOF LEADERS, FOOTING DRAINS, SUMP PUMPS DR DTHER SIMILAR CONNECTIONS CARRING RAIN WATER, DRAINAGE DR GROUND WATER SHALL NOT BE PERMITTED.
- 9) HOUSE WATER SERVICE SHALL NOT BE LAID IN SAME TRENCH AS SEWER SERVICE.
- 10) LOCATION: THE LOCATION OF THE TEE OR WYE SHALL BE RECORDED AND FILED IN THE MUNICIPAL RECORDS. IN ADDITION, A FERROUS METAL ROD OR PIPE SHALL BE PLACED OVER THE TEE OR WYE AS DESCRIBED IN THE TYPICAL "CHIMNEY" DETAIL, TO AID IN LOCATING THE BURIED PIPE WITH A DIP NEEDLE OR PIPEFINDER.

11) CONCRETE: CONCRETE SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A (3000 PSI) CONCRETE OF THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS AS FOLLOWS:

- CEMENT: 6. 0 BAGS PER CUBIC YARD
- WATER: 5.75 GALLONS PER BAG CEMENT
- MAXIMUM SIZE DF AGGREGATE: 1 INCH
- 12) CHIMNEYS: IF VERTICAL DROP INTO SEWER IS GREATER THAN 4 FEET, A CHIMNEY SHALL BE CONSTRUCTED FOR THE HOUSE CONNECTION, CHIMNEY INSTALLATION AS RECOMMENDED BY THE PIPE MANUFACTURER MAY BE USED IF APPROVED BY THE ENGINEER.



VIEW SHOWING TRENCH BOTTOM

SEE "EROSION AND SEDIMENTATION CONTROL GENERAL NOTES" WHICH ARE TO BE AN INTEGRAL PART OF THIS PROCESS. 2. INSTALL SILTSOXX FENCING AS PER DETAILS AND AT SEDIMENT MIGRATION.

- 3. CONSTRUCT TREATMENT SWALES , LEVEL SPREADERS AND DETENTION STRUCTURES AS DEPICTED ON DRAWINGS.
- 4. STRIP AND STOCKPILE TOPSOIL. STABILIZE PILES OF SOIL CONSTRUCTION MATERIAL & COVER WHERE PRACTICABLE.
- 5. MINIMIZE DUST THROUGH APPROPRIATE APPLICATION OF WATER OR OTHER DUST SUPPRESSION TECHNIQUES ON SITE.
- 6. ROUGH GRADE SITE. INSTALL CULVERTS AND ROAD DITCHES.
- FINISH GRADE AND COMPACT SITE. 8. RE-SPREAD AND ADD TOPSOIL TO ALL ROADSIDE SLOPES. TOTAL TOPSOIL THICKNESS TO BE A MINIMUM OF FOUR TO SIX INCHES.
- 9. STABILIZE ALL AREAS OF BARE SOIL WITH MULCH AND SEEDING.
- 10. RE-SEED PER EROSION AND SEDIMENTATION CONTROL GENERAL NOTES.
- II. SILT SOXX FENCING TO REMAIN AND BE MAINTAINED FOR TWENTY FOUR
- MONTHS AFTER CONSTRUCTION TO ENSURE ESTABLISHMENT OF ADEQUATE SOIL STABILIZATION AND VEGETATIVE COVER. ALL SILT SOXX FENCING ARE THEN TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF. 12. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING
- OPERATIONS.
- 13. ALL TEMPORARY WATER DIVERSION (SWALES, BASINS, ETC. MUST BE USED AS NECESSARY UNTIL AREAS ARE STABILIZED.
- 14. PONDS AND SWALES SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE - BEFORE ROUGH GRADING THE SITE. 15. ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING
- RUNOFF TO THEM 16. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS
- OF ACHIEVING FINISHED GRADE. 17. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF
- ACHIEVING FINISH GRADE. 18. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY
- HALF-INCH OF RAINFALL. 19. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME
- BEFORE DISTURBED AREAS ARE STABILIZED. 20. LOT DISTURBANCE, OTHER THAN THAT SHOWN ON THE APPROVED PLANS,
- SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE.

### PLANTING NOTES:

ALL PLANT MATERIALS SHALL BE FIRST QUALITY NURSERY GROWN STOCK. 2. ALL PLANTS SHALL BE PLANTED IN ACCORDANCE WITH NEW HAMPSHIRE LANDSCAPE ASSOCIATION STANDARDS AND GUARANTEED FOR ONE YEAR BY THE LANDSCAPE CONTRACTOR.

3. ALL TREES AND SHRUBS SHALL HAVE WATER SAUCERS BUILT AROUND THEIR BASES AND THESE SHALL BE MULCHED WITH 4" OF DARK BROWN AGED BARK MULCH. MULCH MUST BE KEPT 2" AWAY FROM THEIR TRUNKS. 4. ALL TREES AND SHRUBS SHALL BE PLANTED AND MULCHED BEFORE LAWN IS

SEEDED.

### MAINTENANCE REQUIREMENTS:

ALL TREES, SHRUBS, AND PERENNIALS WILL NEED TO BE WATERED THROUGH THANKSGIVING DURING THE FIRST SEASON IN WHICH THEY ARE INSTALLED. 2. AN UNDERGROUND DRIP IRRIGATION SYSTEM IS RECOMMENDED. IF AN UNDERGROUND DRIP IRRIGATION SYSTEM IS NOT INSTALLED, SOAKER HOSES WOUND THROUGHOUT PLANTING BEDS ARE ACCEPTABLE. ALTHOUGH OVERHEAD SPRINKLERS ARE RECOMMENDED FOR LAWN AREAS, THEY ARE NOT ACCEPTABLE FOR IRRIGATING TREES AND SHRUBS.

### SEEDING AND STABILIZATION FOR LOAMED SITE: FOR TEMPORARY & LONG TERM SEEDINGS USE AGWAY'S SOIL CONSERVATION GRASS SEED OR EQUAL

COMPONENTS: ANNUAL RYE GRASS, PERENNIAL RYE GRASS, WHITE CLOVER, 2 FESCUES, SEED AT A RATE OF 100 POUNDS PER ACRE,

FERTILIZER & LIME: NITROGEN (N) 50 LBS/ACRE, PHOSPHATE (P205) 100 LBS/ACRE, POTASH (K20) 100 LBS/ACRE, LIME 2000 LBS/ACRE

MULCH:

# HAY OR STRAW 1.5-2 TONS/ACRE

## A) GRADING AND SHAPING

I) SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.

### B) SEED BED PREPARATION

SPECIFICATIONS

REQUIREMENTS

I) SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS. 2) STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

EROSION AND SEDIMENTATION CONTROL GEI NOTES

I. CONDUCT ALL CONSTRUCTION IN A MANNER AND SEQUENCE THAT CAUSES THE LEAST PRACTICAL DISTURBANCE OF THE PHYSICAL ENVIRONMENT, BUT IN NO CASE SHALL EXCEED 2 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.

2. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.

3. ALL DITCHES, SWALES AND PONDS MUST BE STABILIZED PRIOR TO DIRECTING FLOW TO THEM.

4. ALL GROUND AREAS OPENED UP FOR CONSTRUCTION WILL BE STABILIZED WITHIN 24 HOURS OF EARTH-DISTURBING ACTIVITIES BEING CEASED, AND WILL BE FULLY STABILIZED NO LONGER THAN 14 DAYS AFTER INITIATION, (SEE NOTE II FOR DEFINITION OF STABLE). ALL SOILS FINISH GRADED MUST BE STABILIZED WITHIN SEVENTY TWO HOURS OF DISTURBANCE. ALL TEMPORARY OR LONG TERM SEEDING MUST BE APPLIED TO COMPLY WITH "WINTER CONSTRUCTION NOTES" (SEE WINTER CONSTRUCTION NOTES). EMPLOY TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICES AS DETAILED ON THIS PLAN AS NECESSARY UNTIL ADEQUATE STABILIZATION HAS BEEN ASSURED (SEE NOTE II FOR DEFINITION OF STABLE).

5. TEMPORARY & LONG TERM SEEDING: USE SEED MIXTURES, FERTILIZER, LIME AND MULCHING AS RECOMMENDED (SEE SEEDING AND STABILIZATION NOTES). 6. SILTSOXX FENCING TO BE SECURELY EMBEDDED AND STAKED AS DETAILED.

WHEREVER POSSIBLE A VEGETATED STRIP OF AT LEAST TWENTY FIVE FEET IS TO BE KEPT BETWEEN SILTSOXX AND ANY EDGE OF WET AREA. 7. SEEDED AREAS WILL BE FERTILIZED AND RE-SEEDED AS NECESSARY TO ENSURE VEGETATIVE ESTABLISHMENT.

8. SEDIMENT BASIN(S), IF REQUIRED, TO BE CHECKED AFTER EACH SIGNIFICANT RAINFALL AND CLEANED AS NEEDED TO RETAIN DESIGN CAPACITY. 9. SILTSOXX FENCING WILL BE CHECKED REGULARLY AND AFTER EACH SIGNIFICANT RAINFALL. NECESSARY REPAIRS WILL BE MADE TO CORRECT UNDERMINING OR DETERIORATION OF THE BARRIER AS WELL AS CLEANING, REMOVAL AND PROPER DISPOSAL OF TRAPPED SEDIMENT.

10. TREATMENT SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATIVE COVER HAS BEEN ESTABLISHED. II. AN AREA SHALL BE CONSIDERED FULLY STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED • A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED • A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP RAP
- HAS BEEN INSTALLED.

 EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED. II. ALL EROSION AND SEDIMENTATION CONTROL MEASURES IN THE PLAN SHALL MEET THE DESIGN BASED ON STANDARDS AND SPECIFICATIONS SET FORTH IN THE STORM WATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE (DECEMBER LIME: AT I TON PER ACRE OR IOO LBS PER 1,000 S.F. 2008 OR LATEST) PREPARED BY ROCKINGHAM COUNTY CONSERVATION DISTRICT, FERTILIZER: 10 10 (NITROGEN, PHOSPHATE, POTASH AT 500# PER ACRE. N.H. DES AND NRCS. MULCH: HAY OR CLEAN STRAW; 2 TONS/ACRE OR 2 BALES/1000 S.F.

WINTER CONSTRUCTION NOTES ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPETED IN ADVANCE OF THAW OR SPRING MELT EVENT .; 2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS; 3. AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.



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LONG TERM SEEDING

\*WELL TO MODERATELY WELL DRAINED SOILS

FOR CUT AND FILL AREA AND FOR WATERWAYS AND CHANNELS CEEDING MIVTURE C

Ib/ACRE	<u>16/10005F</u>
20	0.45
20	0.45
<u>20</u>	<u>0.45</u>
	<u>Ib/ACRE</u> 20 20 <u>20</u>

TOTAL 1.35 48 LIME: AT 2 TONS PER ACRE OR 100 LBS PER 1,000 S.F.

FERTILIZER: 10 20 20 (NITROGEN, PHOSPHATE, POTASH AT 500# PER ACRE. MULCH: HAY OR CLEAN STRAW; 2 TONS/ACRE OR 2 BALES/1000 S.F.

GRADING AND SHAPING: SLOPES SHALL NOT BE STEEPER THAN 2 TO I. 3 TO I OR FLATTER SLOPES ARE PREFERRED.

SEEDBED PREPARATION: SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED

FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS. STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED.

SOD SHOULD BE TILLED TO A DEPTH OF FOUR INCHES TO PREPARE SEEDBED. FERTILIZER & LIME SHOULD BE MIXED INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

\* FROM: STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE, DECEMBER 2008.

SHORT TERM SEEDING

\*WELL TO MODERATELY WELL DRAINED SOILS

FOR CUT AND FILL AREA AND FOR WATERWAYS AND CHANNELS

SEEDING MIXTURE C		
	<u>#/ACRE</u>	<u>#/10005F</u>
FOR APRIL I - AUGUST 15		
ANNUAL RYE GRASS	40	
FOR FALL SEEDING		
WINTER RYE	112	2.5

GRADING AND SHAPING:

SLOPES SHALL NOT BE STEEPER THAN 2 TO I. 3 TO I OR FLATTER SLOPES ARE PREFERRED.

SEEDBED PREPARATION: SOD SHOULD BE TILLED TO A DEPTH OF FOUR INCHES TO PREPARE

ACROSS THE SLOPE WHEREVER PRACTICAL.

\* FROM: STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE, DECEMBER 2008.

WHEN PROPOSED FOR ALTERATION DURING CONSTRUCTION AS BEING INFESTED WITH INVASIVE SPECIES SHALL BE MANAGED APPROPRIATELY USING THE DISPOSAL PRACTICES IDENTIFIED IN "NHDOT - BEST MANAGEMENT PRACTICES FOR ROADSIDE INVASIVE PLANTS -2008" AND "METHODS FOR DISPOSING NON-NATIVE INVASIVE PLANTS - UNH COOPERATIVE EXTENSION - 2010"

SEED MIXES SHALL NOT CONTAIN ANY SPECIES IDENTIFIED BY THE NEW HAMPSHIRE PROHIBITED INVASIVE PLANT SPECIES LIST.

# Filtrexx SiltSoxx Plan View N.T.S.

# **INSPECTION AND MAINTENANCE OF FACILITIE** PROPERTY

# A. MAINTENANCE OF COMMON FACILITIES OR PROPERTY

1. FUTURE OWNERS OR ASSIGNS ARE RESPONSIBLE FOR MAINTE STORMWATER INFRASTRUCTURE ASSOCIATED WITH THE FACIL PROPERTY. THIS INCLUDES THE ROOF DRAINAGE SYSTEM, STONE BEDS, GRAVEL AREAS, AND THE PERVIOUS PAVEMENT.

**B.** GENERAL INSPECTION AND MAINTENANCE REQUIREMENTS

1. PERMANENT STORMWATER AND SEDIMENT AND EROSION CONTRO BE MAINTAINED ON THE SITE INCLUDE BUT ARE NOT LIMITED TO TH

- a. ROOF DRAINAGE SYSTEM
- b. CRUSHED STONE INFILTRATION BEDS
- c. DRAIN LINES d. PERVIOUS PAVEMENT
- 2. MAINTENANCE OF PERMANENT MEASURES SHALL FOLLOW T SCHEDULE:
- a. DRIVEWAY, PARKING LOT INSPECTION AT THE END OF EVERY W THE START OF THE SPRING RAIN SEASON. SAND/DEBRIS THAT OFF THE DRIVEWAY AND PARKING LOT SHOULD BE REMOVE DISPOSED OF PROPERLY.
- b. ANNUAL INSPECTION OF THE SITE FOR EROSION, DESTABILIZA AND SLOUGHING. ANY NEEDED REPAIRS ARE TO B IMMEDIATELY.
- c. ANNUAL INSPECTION OF SITE'S VEGETATION AND LANDSCAPI THAT ARE BARE SHALL BE RESEEDED AND MULCHED WITH CASE IS EXTREME, LOAMED AND SEEDED OR SODDED TO ENS VEGETATIVE COVER. LANDSCAPE SPECIMENS SHALL BE REPLA THEY ARE FOUND TO BE DEAD OR DYING.
- d. THE FOLLOWING RECOMMENDATIONS WILL HELP ASSURE ' DRAINAGE SYSTEM IS MAINTAINED TO PRESERVE ITS EFFECTIVI
- INITIALLY, PRIOR TO A CERTIFICATE OF OCCUPANCY FOR T UNITS, IT SHOULD BE TESTED BY INSERTING A GARDEN HOSE AND ALLOWING THE WATER TO RUN AT FULL STRENGTH FOR ONE HOUR. THE WATER SHOULD STAY UNDERGROUND WITHIN WATER COMES OUT OF THE OVERFLOW, THE SYSTEM SHOUL INSPECTED AND POSSIBLY REPLACED. THIS PROCEDUR PERFORMED EVERY YEAR DURING THE ANNUAL INSPECTION.
- ii. IN THE SPRING AND FALL, VISUALLY INSPECT THE AREA AROU AND REPAIR ANY EROSION. USE SMALL STONES TO STABILIZE DRAINAGE PATHS. RE-MULCH ANY VOID AREAS BY HAND AS INSPECT THE ROOF COLLECTION AND PIPING AND CLEAN NECESSARY.

iii. DO NOT PLANT DEEP ROOTED TREES AND SHRUBS WITHIN 5' OF

iv. KEEP HEAVY VEHICLES FROM DRIVING OR PARKING OVER THE SYSTEM.

ACTIVITY	DATE OF INSPECTION	WHO INSPECTED	SATISFACTORY: YES, NO, N/A	MAINTENANCE NEEDED	IMPLEMENTED DATE OF CORRECTIVE ACTION	FINDINGS OF INSPECTOR
PARKING LOT SWEEPING						
PARKING LOT SWEEPING PERVIOUS PAVEMENT						
R <i>OO</i> F DRAINAGE SYSTEM						
STONE INFILTRATION						
RAIN GARDEN						
CULVERTS						
					1	

SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS. STONES LARGER THAN FOUR INCHES AND TRASH SHOULD BE REMOVED.

SEEDBED. FERTILIZER & LIME SHOULD BE MIXED INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED

ES AND	e. THE FOLLOWING REQUIREMENTS WILL HELP ASSURE THAT THE PERVIOUS PAVEMENT SYSTEM IS MAINTAINED TO PRESERVE ITS EFFECTIVENESS:
NANCE OF ALL LITY AND THE E INFILTRATION	i. INSPECTION OF SITE SHALL OCCUR MONTHLY FOR THE FIRST FEW MONTHS AFTER CONSTRUCTION. THEN INSPECTIONS CAN OCCUR ON AN ANNUAL BASIS, PREFERABLY AFTER RAIN EVENTS WHEN CLOGGING CAN OCCUR AND BE OBVIOUS. PERMEABLE PAVEMENT REQUIRES MINIMAL MAINTENANCE; HOWEVER MAINTENANCE IS ABSOLUTELY NECESSARY TO ENSURE A PROPER WORKING SYSTEM.
	ii. ASPHALT SEAL COATING IS ABSOLUTELY FORBIDDEN. SURFACE SEAL COATING IS NOT REVERSIBLE.
DL FACILITIES TO IE FOLLOWING:	iii. STREET SWEEPERS WITH VACUUMS, WATER, AND BRUSHES CAN BE USED TO RESTORE PERMEABILITY. FOLLOW SWEEPING WITH HIGH-PRESSURE HOSING OF THE SURFACE PORES. SURFACE SHOULD BE VACUUMED 4 TIMES PER YEAR, AND AT ANY ADDITIONAL TIMES SEDIMENT IS SPILLED, ERODED, OR TRACKED ONTO THE SURFACE.
THE FOLLOWING	iv. PLANTED AREAS ADJACENT TO PERVIOUS PAVEMENT SHOULD BE WELL MAINTAINED TO PREVENT SOIL WASHOUT ONTO THE PAVEMENT. IF ANY BARE SPOTS OR ERODED AREAS ARE OBSERVED WITHIN THE PLANTED AREAS, THEY SHOULD BE REPLANTED AND/OR STABILIZED AT ONCE.
'INTER, PRIOR TO HAS COLLECTED D OFF-SITE AND	v. IMMEDIATELY CLEAN ANY SOIL DEPOSITED ON PAVEMENT. SUPERFICIAL DIRT DOES NOT NECESSARILY CLOG THE VOIDS. HOWEVER, DIRT THAT IS GROUND IN REPEATEDLY BY TIRES CAN LEAD TO CLOGGING. THEREFORE, TRUCKS OR OTHER HEAVY VEHICLES SHOULD BE PREVENTED FROM TRACKING OR SPILLING DIRT ONTO THE PAVEMENT.
TION, SETTLING, BE CONDUCTED	vi. DO NOT ALLOW CONSTRUCTION STAGING, SOIL/MULCH STORAGE, ETC. ON UNPROTECTED PAVEMENT SURFACE.
NG. ANY AREAS	vii. NO WINTER SANDING. MECHANICAL SNOW AND ICE REMOVAL PREFERRED.
HAY OR, IF THE SURE ADEQUATE ACED IN-KIND, IF	viii. DEICING IS PERMITTED ON PERVIOUS PAVEMENT IN THE WINTER. MINIMIZE APPLICATION OF SALT BY REDUCING THE APPLICATION BY 50% OVER TRADITIONAL PAVEMENT.
THAT THE ROOF ENESS:	viii. WRITTEN AND VERBAL COMMUNICATION TO THE POROUS PAVEMENT'S FUTURE OWNER SHOULD MAKE CLEAR THE SPECIAL PURPOSE AND SPECIAL MAINTENANCE REQUIREMENTS SUCH AS THOSE LISTED HERE.
HE RESIDENTIAL INTO THE INLET A MINIMUM OF	f. THE FOLLOWING REQUIREMENTS WILL HELP ASSURE THAT THE STONE INFILTRATION SYSTEM IS MAINTAINED TO PRESERVE ITS EFFECTIVENESS:
LD BE FURTHER RE SHOULD BE	i. INSPECTED AT LEAST TWICE ANNUALLY AND FOLLOWING ANY RAINFALL EVENT EXCEEDING 2.5 INCHES IN A 24 HOUR PERIOD.
ND THE SYSTEM EROSION ALONG NEEDED. ALSO, AND REPAIR AS	ii. IF SYSTEM DOES NOT DRAIN WITHIN 72 HOURS FOLLOWING A RAINFALL EVENT, THEN A QUALIFIED PROFESSIONAL ENGINEER SHOULD ASSESS THE CONDITION OF THE STONE TRENCH TO DETERMINE MEASURES REQUIRED TO RESTORE INFILTRATION FUNCTION. INCLUDING, BUT NOT LIMITED TO, REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE INFILTRATION TRENCH.
THE SYSTEM. SYSTEM.	g. OWNERS SHALL PROVIDE A REPORT ON ACTIVITIES PERFORMED THROUGHOUT THE YEAR. REPORT SHALL INCLUDE DOCUMENTATION THAT PAVEMENT CLEANING IS ACCOMPLISHED PER THIS DOCUMENT AND A CERTIFICATION THAT THE SYSTEM CONTINUES TO FUNCTION AS DESIGNED.

1       1/17/2022       PRELIMINARY         ISS       DATE       DESCRIPTION OF ISSUE         SCALE       AS NOTED         CHECKED       A.ROSS         DRAWN       M.G.P.         CHECKED       CHECKED         CHECKED         CHECKED         CHECKED         ROSS ENGINEERING Civil/Structural Engineering & Surveying 909 Islington St. Portsmouth, NH 03801 (603) 433-7560         CLIENT LANCEN & SOPHIE LACHANCE 281 DENNETT STREET PORTSMOUTH, NH 03801         TITLE         EROSION CONTROL PLAN         11 FLETCHER ST PORTSMOUTH, NH 03801         TAX MAP 233, LOT 76–1         JOB NUMBER 21–176         DWG. ND. SOF 8			2	5/25/2022	FOR PB	
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				21-176		